	&	AND	ELEC CAB	ELECTRICAL CABINET ELEVATOR
	A AAP	AIR (CLINICAL) ALARM ANNUNCIATOR PANEL	EMER ENCL	EMERGENCY ENCLOSURE
	AAV	AUTOMATIC AIR VENT	ENTR	ENTRANCE
	ABV	ANCHOR BOLT ABOVE	EQ EQ	ELECTRICAL OUTLET EQUAL
	ACC DR ACFL	ACCESS DOOR ACCESS	EQUIP ETR	EQUIPMENT EXISTING TO REMAIN
	ACOUS ACT	ACOUSTICAL ACOUSTICAL CEILING TILE	EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER
	ADA	AREA DRAIN AMERICAN DISABILITIES ACT	EWT EX	ENTERING WATER TEMPER EXAUST AIR
	ADD ADDL	ADDENDUM ADDITIONAL	EXH EXIST	EXHAUST EXISTING
	ADJ ADMIN	ADJUSTABLE ADMINISTRATION	EXP EXT	EXPANSION EXTERIOR
	AFF AFG	ABOVE FINISH FLOOR ABOVE FINISHED GRADE	XP	EXPLOSION PROOF
	AFMD AHU	AIR FLOW MEASURING DEVICE AIR HANDLING UNIT	F/S FA	FIRE / SMOKE DAMPER FIRE ALARM
	AL ALT	ALIGN ALTERNATE	FAAP FACP	FIRE ALARM ANNUNCIATOR
	ALUM AMP	ALUMINUM AMPERE	FAT FB	FINAL AIR TEMPERATURE FIRE BLANKET
	AP APC	ACCESS PANEL ARCHITECTURAL PRECAST	FC	FLEXIBLE CONNECTION OF FOOTCANDLE
	APPROX	CONCRETE APPROXIMATE	FD FDN	FLOOR DRAIN OR FIRE DAN FOUNDATION
	ARCH ASY	ARCHITECTURAL ASYMMETRIC	FDV FE	FIRE DEPARTMENT VALVE FIRE EXTINGUISHER
	ATC	AUTOMATIC TEMPERATURE CONTROL	FEC FH	FIRE EXTINGUISHER CABIN
	ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	FHC FHP	FIRE HOSE CABINET FULL HEIGHT PARTITION
	AWT	AVERAGE WATER TEMPERATURE	FHV	FIRE HOSE VALVE
	BAT	BATTERY PALANCING COOK OF PARE COPPER	FIN FIXT	FINISH FIXTURE
	BC BDD	BALANCING COCK OR BARE COPPER BACKDRAFT DAMPER	FL FLA	FLOW LINE FULL LOAD AMPERES
	BFC BFE	BELOW FINISH CEILING BOTTOM FOOTING ELEVATION	FLASH FLEX	FLASHING FLEXIBLE
	BFG BG	BELOW FINISHED GRADE BUMPER GUARD	FLG FLG C	FLANGE FLANGE CONNECTION
	BLDG BLKG	BUILDING BLOCKING	FLR FLUOR	FLOOR FLUORESCENT
	BLT BLW	BORROWED LIGHT BELOW	FP FRMG	FIRE PROOFING FRAMING
	BM BO	BEAM BY OWNER	FS FSTOP	FLOOR SINK FIRESTOPPING
	BOF BOT	BY OWNER FUTURE BOTTOM	FT HD	FOOT / FEET FEET OF HEAD
	BR BRG	BRICK BEARING	FTC	FOOTCANDLES
	BRKR	BREAKER	FTG FUR	FOOTING FURRING
	BSMT BTWN	BASEMENT BETWEEN	G	GAS OR ELECTRICAL GROU
	BUR	BUILT UP ROOFING	GA GAL	GAUGE GALLONS
	C CAB	CONDUIT CABINET	GALV GB	GALVANIZED GRAB BAR
	CANTL CAP	CANTILEVER CAPACITY	GC GEN	GENERAL CONTRACTOR GENERATOR
	CATV CCT	CABLE TELEVISION CUBICLE CURTAIN TRACK	GENL GFCI	GENERAL GROUND FAULT CIRCUIT
	CCTV CFH	CLOSED CIRCUIT TELEVISION CUBIC FEET / HOUR	GL	INTERRUPTOR GLASS
	CFM	CUBIC FEET / MINUTE	GLV	GLOBE VALVE
	CH CHK V	CHANNEL CHECK VALVE	GND GPM	GROUND GALLONS PER MINUTE
	CHWR CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	GR GRAV	GRADE GRAVITY
	CHWS&R	CHILLED WATER SUPPLY AND RETURN	GRD BM GV	GRADE BEAM GATE VALVE
	CJ CKT	CONTROL JOINT CIRCUIT	GWB	GYPSUM BOARD
	CKT BRKR CL	CIRCUIT BREAKER CENTERLINE	H HB	HIGH HOSE BIB
	CLG CLG MTD	CEILING CEILING MOUNTED	HC HDCP	HEATING CONTRACTOR HANDICAP
	CLR CMU	CLR CONCRETE MASONRY UNIT	HDR HDW	HEADER HARDWARE
	CO COL	CLEAN OUT COLUMN	HID	HIGH INTENSITY DISCHARD
	COMM	COMMUNICATION CONCRETE	HORIZ	HORIZONTAL HORSE POWER
	CONN	CONNECTION CONSTRUCTION	HPD	HIGH PRESSURE DRIP
	CONT	CONTINUE / CONTINUOUS	HPF HR	HIGH POWER FACTOR HANDRAIL
	CONTR CONV	CONTRACTOR CONVECTOR	HSKP HT	HOUSEKEEPING HEIGHT
	COORD CORR	COORDINATE CORRIDOR	HTG HTR	HEATING HEATER
	CPT	CARPET OR CONTROL POWER TRANSFORMER	HV HVAC	HIGH VELOCITY HEATING, VENTILATING, AII
	CT CTR	CERAMIC TILE CENTER	HW	CONDITIONING HOT WATER
	CV	COPPER CONTROL VALVE	HWD HWR	HARD WOOD HOT WATER RETURN
	CW	COLD WATER	HWS	HOT WATER SUPPLY
	D DR	DEPTH OR DEEP	HWS&R HZ	HOT WATER SUPPLY AND F
	DB dB	DRY BULB DECIBEL DOMESTIC COLD WATER	ID	INSIDE DIAMETER
	DCW DEMO	DOMESTIC COLD WATER DEMOLITION	IER IG	INVERTED ECCENTRIC RED ISOLATED GROUND
	DEPT DET	DEPARTMENT DETAILS	IME IN	INSULATED METAL ENCLOS
	DF DHW	DRINKING FOUNTAIN DOMESTIC HOT WATER	INCAND	INCANDESCENT INCLUDED
	DIA DIAG	DIAMETER DIAGONAL OR DIAGRAM	INSUL	INSULATION INTERIOR
	DIFF	DIFFUSER DIMENSION	INTERL	INTERLOCK
	DISC	DISCONNECT	INV	INVERT ISOLATION
	DISCH	DISCHARGE DISPENSER	IVS	ISOLATED VALVE STATION
	DIST	DISTRIBUTION DIVISION	J-BOX JST	JUNCTION BOX JOIST
	DL DN	DOWN LIGHT DOWN	JT	JOINT
	DP DPR	DISTRIBUTION PANEL DAMPER	KO kVA	KNOCK OUT KILOVOLT AMPERE
	DR DS	DRAIN DOWNSPOUT	kVAR kW	KILOVAR (REACTANCE) KILOWATT
	DWG DX	DRAWING DIRECT EXPANSION	kWH	KILOWATT HOUR METER
			LAT	LEAVING AIR TEMPERATUR
	EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE	LAV LB	LAVATORY POUND
	EC EDB	ELECTRICAL CONTRACTOR ENTERING DRY BULB	LDB LED	LEAVING DRY BULB LIGHT EMITTING DIODE
	EF EIFS	EXHAUST FAN EXTERIOR INSULATION AND	LF LIN	LINEAR FEET LINEAR
	EJ	FINISHING SYSTEM EXPANSION JOINT	LOC	LOCATION OR LOCATE LOW POINT
	EL ELEC	ELEVATION ELECTRICAL	LSDC	LINEAR SUPPLY DIFFUSER
-	LLLU		LT	LIGHT
_				
_				

one eighth inch = one foot

4 8 16

VA FORM 08-6231

	LTO	LIGUTING	
	LTG LV	LIGHTING LOW VOLTAGE	SWBD SWGR
	LVR	LOUVER	SYM
	LWB	LEAVING WET BULB	
	LWC	LINEAR WOOD CEILING	<u> </u>
	LWT	LEAVING WATER TEMPERATURE	TA TAN
	MAN	MANUAL	TC
	MAT	MIXED AIR TEMPERATURE	1 L
	MATL	MATERIAL	TCV
	MAV	MANUAL AIR VENT	TDV TEL
RE	MAX MBH	MAXIMUM ONE THOUSAND BTU / HOUR	TEMP
	MC	MECHANICAL CONTRACTOR	TER
	MC	METAL CLAD CABLE	TG
	MCB	MAIN CIRCUIT BREAKER	TH
	MCC	MOTOR CONTROL CENTER	THRES
	MDP MECH	MAIN DISTRIBUTION PANEL MECHANICAL	TRANS
	MEMB	MEMBRANE	TRANS
	MET	METAL	TSTAT
EL	MFR	MANUFACTURER	TV
	MH	MANHOLE	TYP
-	MIN MISC	MINIMUM MISCELLANEOUS	UC
\dashv	MLO	MAIN LUGS ONLY	UFD
	MO	MASONRY OPENING	UG
	MOD	MOTOR OPERATED DAMPER	UH
	MONO	MONOLITHIC	UL
	MTD MTG HT	MOUNTED MOUNTING HEIGHT	UNFIN
	MTL	METAL	UPS
	MTLH	METAL HALIDE	UTIL
	MTR	MOTOR	
	MTS	MANUAL TRANSFER SWITCH	V VAL
	MV	MEDIUM VOLTAGE	- VAL VD
	N/A	NOT APPLICABLE	VENT
	NEC	NATIONAL ELECTRIC CODE	VERT
	NEMA	NATIONAL ELECTRICAL	VFS
	NIC	MANUFACTURER ASSOCIATION NOT IN CONTRACT	VIF VL
	NL	NIGHT LIGHT	VR VR
	NO	NUMBER OR NORMALLY OPEN	VS
	NOM	NOMINAL	VTR
	NTS	NOT TO SCALE	┨
	0	OXYGEN	
	OA	OUTSIDE AIR	W/O
	OBD	OPPOSED BLADE DAMPER	WB
	OC	ON CENTER	WC
	OD	OUTSIDE DIAMETER	WCL
	OPER OPNG	OPERATED OPENING	WD WF
	OPP	OPPOSITE	WFMD
\dashv	ORD	OVERFLOW ROOF DRAIN	WG
			WHCH
	PB	PULL BOX	WIN
	PC PD	PLUMBING CONTRACTOR PUMP DISCHARGE	WMS WP
\dashv	PG PG	PRESSURE GAUGE WITH COCK	WPS
==	PL	PROPERTY LINE	WSCT
	PLAM	PLASTIC LAMINATE	WT
	PLBG	PLUMBING	WTD
	PNL PR	PANEL PAIR	WWF
	PRD PRD	PRESSURE DIFFERENTIAL VALVE	X
	PRELIM	PRELIMINARY	XN
	PRT	PRESSURE TAP	XR
-	PRV	PRESSURE REDUCING VALVE	
	PT	PAINT OR POTENTIAL TRANSFORMER	ZVB ZVC
	RO	ROUGH OPENING	
	QT	QUARRY TILE	4
-	R	RADIUS	_
	RA	RETURN AIR / RELIEF AIR	-
\dashv	RB	RUBBER BASE	-
	RC	REMOVE COMPLETELY	
	RD	ROOF DRAIN	4
	RE	RELOCATE EXISTING	4
\dashv	REC RECPT	RECESSED RECEPTACLE	-
\dashv	REF	REFERENCE	-
	REFL	REFLECTOR	_
	REG	REGISTER	

REINF REINFORCING

REX REMOVE EXISTING

RH ROOF HATCH

RS RAPID START

SA SUPPLY AIR

SCHED SCHEDULE

SDISP SOAP DISPENSER

SF SQUARE FOOT

SM SURFACE MOUNTED

SPEC SPECIFICATIONS

ST PR STATIC PRESSURE ST STL STAINLESS STEEL STD STANDARD STER STERILIZER

STL STEEL

STOR STORAGE STR STRAINER

STRUCT STRUCTURAL

SUSP SUSPENDED

SNC SANITARY NAPKIN CABINET

SND SANITARY NAPKIN DISPOSER SP STANDPIPE OR STATIC PRESSURE

SPC SPECIMEN PASS-THRU CABINET

SPS STATIC PRESSURE SENSOR SR SERVICE RECEPTOR S | SOIL STACK

SHT MTL | SHEET METAL

SHTG SHEATHING

SIM SIMILAR

RV RELIEF VALVE

RF RESILIENT FLOOR

RR REMOVE AND REPLACE

RWC RAIN WATER CONDUCTOR

SAN-BXR SANITARY SEWER - BURIED

EXISTING TO REMAIN SAN-XR SANITARY SEWER ABOVE GROUND

EXISTING TO REMAIN

SD SMOKE DAMPER OR SMOKE

SAN SANITARY SEWER ABOVE GROUND

RFI REQUEST FOR INFORMATION

RGS RIGID GALVANIZED STEEL CONDUIT

RN REMOVE AND REPLACE WITH NEW

REM REMOVE

REQD REQUIRED RET RETURN

REV REVISE

SWITCHGEAR SYMMETRICAL TOP

TELECOMMUNICATIONS CONTRACTOR

TRIPLE DUTY VALVE

TELEPHONE

TEMPERATURE TERRAZZO

TONGUE & GROOVE THERMOMETER THRESHOLD TEMPERATURE RISE TRANSITION TRANSFORMER THERMOSTAT

TEMPERATURE CONTROL VALVE

TURNING VANES OR TELEVISION

UNDER CABINET OR UNDER CUT

UNDERWRITER'S LABORATORIES

UNINTERRUPTIBLE POWER SUPPLY

UNLESS NOTED OTHERWISE

UNDER FLOOR DUCT

UNDERGROUND

UNIT HEATER

UNFINISHED

VOLUME DAMPER VENTILATION

VENTURI FLOW STATION VERIFY IN FIELD

VAPOR RETARDER VENT STACK

WALL COVERING

WATER CLOSET

WIDE FLANGE

WIRE MESH SCREEN

WINDOW TREATMENT

WELDED WIRE FABRIC

EXISTING TO REMAIN

ZONE VALVE CABINET

ZONE VALVE BOX

WEATHERPROOF

WAINSCOT

WATER FLOW MEASURING DEVICE

WALL GUARD OR WATER GAUGE

WALL PROTECTION SYSTEM

WATER TEMPERATURE DROP

TO BE RELOCATED / NEW LOCATION

VENT THROUGH ROOF

			SYSTEM OUTPUTS																					
	FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX		ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	ACTUATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	DE-POWER POWER ASSISTED FIRE DOORS	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RELEASE MAGNETCALLY HELD DOORS	RECALL ELEVATOR TO ALTERNATE RECALL FLOOR	ACTUATE WARNING TO ELEVATOR CABS	DELAYED REMOVAL OF POWER FROM ELEVATOR	CLOSE ALL SMOKE DAMPERS	UNLOCK EXITS AND CONTROL DOORS	SHUT DOWN RESPECTIVE AIR HANDLING UNIT	ACTUATE FLOOR PRESSURIZATION	ACTUATE STAIRWELL PRESSURIZATION	ACTU SMO EXH <i>A</i>
	FIRE ALARM SYSTEM AC POWER FAILURE			Х	Х								Х											
ı	FIRE ALARM SYSTEM LOW BATTERY					Х	Х							Х										
	OPEN CIRCUIT					Х	Х							Х										
	GROUND FAULT					Х	Х							Х										
	NOTIFICATION APPLIANCE CIRCUIT SHORT					Х	Х							Х										
1	BUILDING MANUAL PULL STATIONS	Х	Х					Х	Х	Х	Х	Х		Х	Х				Х	Х				
	CORRIDOR SMOKE DETECTORS	Х	Х					Х	Х	Х	Х			Х	Х				Х	Х		Х	Х	
(A)	AREA SMOKE DETECTORS	Х	Х					Х	Х	Х	Х	Х		Х	Х				Х	Х		Х	Х	
3	HVAC AIR DUCT SMOKE DETECTORS			Х	Х			Х					Х								Х			1
	AREA HEAT DETECTORS	Х	Х					Х	Х	Х	Х	Х		Х	Х				Х	Х		Х	Х	
= 	HOOD OR ROOM FIRE SUPPRESSION SYSTEM	Х						Х					Х	Х	Х				Х	Х				1
STEM	SPRINKLER TAMPER SWITCH	Х		Х	Х			Х	Х	Х	Х													
χ -	SPRINKLER WATER FLOW IN BUILDING	Х	X					Х	Х	Х	X			X	X					X				
ဟ∣ု	SPRINKLER WATER FLOW IN ELEV EQUIPMENT ROOM OR SHAFT	Х						Х	Х	Х	X			Х	X					X				
	ELEV SHAFT AND ELEV EQUIPMENT ROOM SMOKE DETECTORS	Х						X	X	Х	X			X	X					X				
	ELEV SHAFT AND ELEV EQUIPMENT ROOM HEAT DETECTORS	Х						X	X	Х	X			X	X		Х	X		X				
	ELEV LOBBY SMOKE DETECTORS UPPER FLOORS	Х						Х	Х	Х	X	Х		X	X		Х			X		X	Х	
-	ELEV LOBBY SMOKE DETECTORS RECALL FLOORS	Х						Х	Х		X	Х		Х	X		X	X		X		X	Х	
	ELEV CONTROLLER POWER SHUNT TRIP STATUS			Х	Х			Х												X				
\vdash	FIRE PUMP POWER FAILURE/PHASE REVERSAL			X	Х			X	Х	Х	X			X	X	Х	X							
	FIRE PUMP RUNNING	Х	X					X					X						X	X				†
\vdash	FIRE PUMP SYSTEM NOT IN AUTOMATIC			X	X			X					X							<u> </u>				
-	LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL			X	Х			X					X											
	LEGALLY REQUIRED GENERATOR SYSTEM NOT IN			X	X			X					X											
	AUTOMATIC AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS			X	X			X					X											

FIRE ALARM SYMBOLS LEGEND

NOTIFICATION SYMBOLS

- STROBE UNIT SYNCHRONIZED CEILING MOUNT
- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD STROBE UNIT SYNCHRONIZED - WALL MOUNT

THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD COMBO SYNCHRONIZED HORN/STROBE UNIT - WALL MOUNTED
- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD COMBO SYNCHRONIZED HORN/STROBE UNIT - CEILING MOUTNED
- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD
- FIRE SPEAKER UNIT CEILING MOUNTED
- FIRE SPEAKER UNIT WALL MOUNTED FIRE SPEAKER/STROBE UNIT - CEILING MOUNTED
- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD FIRE SPEAKER/STROBE UNIT - WALL MOUNTED
- (XX-CD = CANDELA RATING): WP = WEATHERPROOF, WG = WIREGUARD

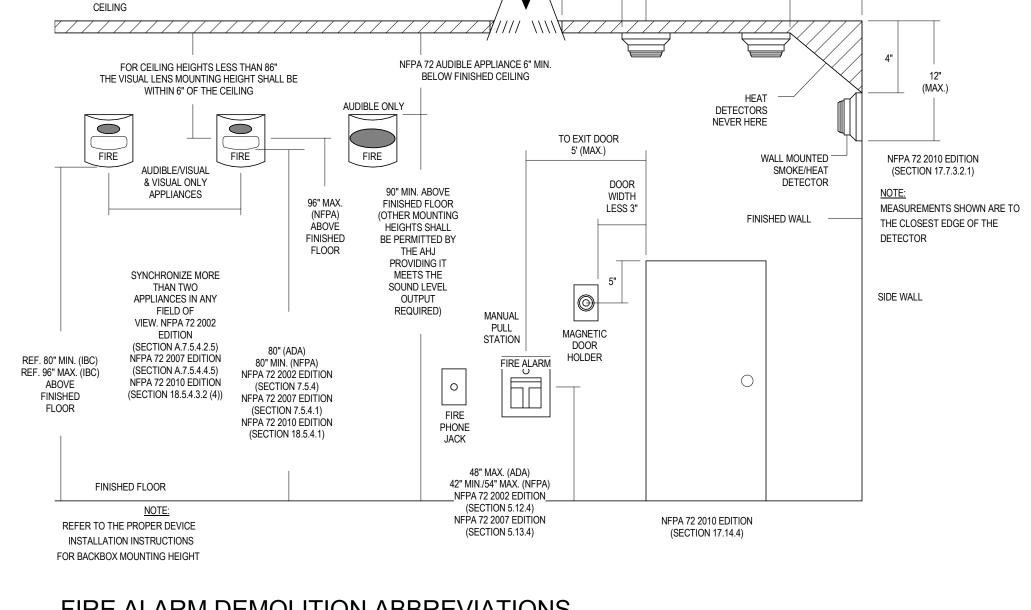
INITIATING SYMBOLS

- HEAT DETECTOR
- SMOKE DETECTOR
- DD DUCT DETECTOR
- MANUAL PULL STATION
- CONNECTION TO SPRINKLER TAMPER AND\OR LOW AIR SWITCH
- CONNECTION TO SPRINKLER WATER, FLOW SWITCH
- ADDRESSABLE MONITOR MODULE
- ADDRESSABLE CONTROL MODULE
- R RELAY
- MAGNETIC DOOR HOLD OPEN DEVICE FLOOR MOUNTED MAGNETIC DOOR HOLD OPEN DEVICE - WALL MOUNTED

FIRE ALARM HEAD END SYMBOLS

I =====	
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
FAAP	REMOTE LCD ANNUNCIATOR PANEL
FAC	FIRE ALARM COMMUNICATOR (DACT)
MFACP	MASTER FIRE ALARM CONTROL PANEL
FFCS	FIRE FIGHTERS COMMAND STATION
FATC	FIRE ALARM TERMINAL CABINET
FCPS	FIELD CHARGING POWER SUPPLY
 	

END OF LINE SUPERVISORY DEVICE



ALL SYSTEM PARTS MUST BE HONEYWELL NOTIFIER ONLY

NO OTHER MANUFACTURER ALLOWED.

3' (MIN.)

FIRE ALARM DEMOLITION ABBREVIATIONS

- ETR EXISTING TO REMAIN DEVICE SHALL REMAIN IN WORKING ORDER.
- RN REMOVE AND REPLACE WITH NEW EXISTING BACKBOX AND WIRING SHALL REMAIN, RECONNECT NEW DEVICE TO EXISTING CIRCUIT.
- RR REMOVE AND RELOCATE DISCONNECT DEVICE, MODIFY AND EXTEND FEED TO NEW LOCATION.
- RC REMOVE COMPLETLY REMOVE DEVICE, CONDUIT, AND WIRING BACK TO SOURCE.

GENERAL FIRE ALARM SYSTEM NOTES:

SMOKE/HEAT

- 1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL FIRE ALARM SYSTEM SCOPES OF WORK AS INDICATED ON THE EF SERIES DRAWINGS.
- 2. ALL EQUIPMENT SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
- 3. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES
- MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK. 4. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 760 OF THE 2008 NATIONAL ELECTRIC CODE, ALL FIRE ALARM CABLE MUST BE MARKED TYPE FPL (NON
- 5. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH ALL ANSI 117, NFPA 72 AND IBC REQUIREMENTS, AT THE MINIMUM. INSTALL ALL DEVICES AS FOLLOWS:
- MANUAL PULL STATION: 48" AFF TO CENTER

PLENUM) OR FPLP (PLENUM) AND PROVIDED IN ACCORDANCE WITH THE CABLING REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.

AUDIBLE / VISUAL: 7'-0" AFF TO CENTER OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS. VISUAL: 7'-0" AFF TO CENTER OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.

AFFECTED TRADES PRIOR TO INSTALLATION.

- EMERGENCY TELEPHONE JACKS: 48" AFF TO CENTER 6. COORDINATE WITH ALL TRADES ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL
- INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES. 7. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NFPA 70 REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND
- SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS. 8. COORDINATE EXACT LOCATION(S) OF ALL CEILING MOUNTED CABLE, CONDUITS, EQUIPMENT AND/OR DEVICES WITH ALL ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND
- 9. ALL SMOKE AND HEAT DETECTORS SHALL BE MOUNTED TO FINISHED CEILING AND/OR DECKING, UNLESS NOTED OTHERWISE. DETECTORS SHALL NOT BE INSTALLED ON BOTTOM OF OPEN WEB JOISTS OR ON BEAMS EXCEEDING 12 INCHES DEPTH FROM FINISHED CEILING OR DECK. REFER TO NFPA 72 FOR ALL INITIATING DEVICE INSTALLATION REQUIREMENTS.
- PROVIDE DETECTORS IN SUFFICIENT QUANTITY TO COMPLY WITH ALL NFPA 72 REQUIREMENTS BASED ON CEILING CONDITIONS AND PROTECTED SPACE REQUIREMENTS
- 10. PROTECTIVE ANTI-DUST COVERS SHALL BE INSTALLED AND MAINTAINED ON ALL SYSTEM SMOKE DETECTORS UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION.
- 11. SMOKE DETECTORS SHALL NOT BE INSTALLED LESS THAN 3 FEET FROM ANY HVAC SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ALL LIGHTING
- 12. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED
- APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
- 13. THE FIRE ALARM SYSTEM CABLING SHALL BE INSTALLED IN DEDICATED CONDUITS. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 AND THE CONTRACT DOCUMENTS. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NFPA 70 AND SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. REFER TO RELATED SPECIFICATION
- 14. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. PROVIDE TAMPER-RESISTANT INSTALLATION UTILIZING "TORX WITH PEG" SECURITY-FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECTED TO TAMPERING OR VANDALISM. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL
- 15. PROVIDE APPROVED EARTH GROUND AT FIRE ALARM CONTROL PANEL. CHASSIS. A CONDUIT GROUNDING TO BUILDING STEEL SHALL NOT BE CONSIDERED AN ACCEPTABLE METHODOLOGY FOR GROUNDING OF FIRE ALARM CONTROL PANEL..
- 16. ALL SYSTEM WIRING AND EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURER'S REQUIREMENTS. WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL TEST FREE FROM ALL GROUNDS,
- 17. NO A.C. CARRYING CONDUCTORS ARE PERMITTED TO SHARE RACEWAYS WITH ANY FIRE ALARM INITIATING AND/OR NOTIFICATION CIRCUITS
- 18. ALL AC ELECTRICAL CIRCUITS FEEDING THE FIRE ALARM CONTROL EQUIPMENT SHALL BE EQUIPPED WITH DEDICATED CIRCUIT BREAKER LOCKOUT DEVICE IN ACCORDANCE WITH
- 19. THE CONTRACTOR SHALL METER ALL WIRES AND CIRCUITS TO ENSURE THEY ARE FREE OF ANY GROUNDS AND SHORTS PRIOR TO COMMISSIONING OF THE SYSTEM. 20. ALL AUXILIARY ALARM RELAYS MUST BE INSTALLED WITHIN 3 FEET OF THE EQUIPMENT TO BE CONTROLLED IN ACCORDANCE WITH ALL NFPA 72 REQUIREMENTS.
- 21. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE LABELED UNIQUE IDENTIFICATION NUMBER. ALL NUMBERS SHALL CORRESPOND WITH NUMBERING SEQUENCE AS SUBMITTED ON
- THE PROJECT SHOP DRAWINGS. LABELS TO BE SIMILAR TO "BROTHER P-TOUCH" BLACK LETTERING ON WHITE BACKGROUND, SELF-ADHESIVE TAPE. ALL DEVICE LABELS SHALL BE INSTALLED PRIOR TO SYSTEM CHECKOUT. 22. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL
- INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
- 23. REFER TO ALL RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
- 24. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X ENCLOSURES AND RATED FOR THAT APPLICATION.
- 25. ALL EQUIPMENT EXPOSED TO THE ENVIRONMENT OR INSTALLED IN PROXIMITY TO AREAS WITH HIGH MOISTURE, OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL PROVIDED WITH ENCLOSURES AND OR BACKBOXES RATED FOR THE ENVIRONMENTAL CONDITIONS.
- 26. THE STROBE INTENSITY OF ALL VISUAL NOTIFICATION APPLIANCES SHALL BE IN ACCORDANCE WITH NFPA 72 AND UL 1971. STROBE CANDELA RATINGS SHALL BE PROVIDED IN ACCORDANCE WITH DEVICE LOCATIONS AND SHALL CONFORM TO ALL ICC/ANSI 117 AND NFPA 72 INSTALLATION REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE REQUIRED CANDELA POWER AND LOCATE ALL VISUAL NOTIFICATION APPLIANCES AS REQUIRED TO MEET THE REQUIREMENTS OF ALL REFERENCED CODES AND STANDARDS.

FULLY SPRINKLERED, CONSTRUCTION DOCUMENTS

SW SWITCH Project Title: Drawing Title **CONSULTANTS: SEAL ARCHITECTS/ENGINEERS:** Office of 562-13-112 FIRE ALARM SYMBOLS, ABBREVIATIONS AND **EXPAND EMERGENCY POWER** NOTES Construction BARBER & HOFFMAN GENERATION for the ERIE VAMC **Building Number** 215 EXECUTIVE DRIVE #202 CRANBERRY TWP, PA 16066 and Facilities **6587 Hamilton Avenue** // PROFESSIONAL URBAN ENGINEERS, INC. Pittsburgh, Pennsylvania 15206 **Approved: Project Director Drawing Number** Location: 1 WILLIAMSBURG PLACE, SUITE 210 Management Ph: 412.287.7333 Fax: 412.287.7334 SCOTT P. LIZOTTE 135 E 38TH ST, ERIE, PA 16504 WARRENDALE, PA 15086 www.ae-works.com MOORE DESIGN ASSOCIATES AE WORKS Project Number: 13045 Checked: || Drawn: Department of Veterans Affairs REV. 1 130 HEAVEN LANE 3/17/2016 TΑ Revisions: MARS, PA 16046 Date